

IN THE CLAIMS:

Please cancel claims 9 and 11 without prejudice or disclaimer.

Please amend claims 1-8, 10 and 12-18 as follows:

1. (Currently Amended) A pumping arrangement for pumping multi-phase fluid flow, said arrangement comprising:

a centrifugal pump which includes a fluid inlet and an outlet and driveable by a power providing means,

3u a fluid communication providing means to provide a communication of fluid between said outlet and said inlet of said pump, said fluid communication being such as to provide a fluid connection between said outlet and said inlet to deliver fluid of a higher pressure from said outlet to said inlet when said centrifugal pump is in operation,

wherein said centrifugal pump is provided with an impeller which has a plurality of vanes configured to define there between ~~larger~~ one of three and four vane separated passageways ~~when compared to a conventional centrifugal pump which would operate in or near optimum conditions when pumping liquid only.~~

2. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 1 wherein said arrangement is for pumping a fluid of gaseous/liquid mix.

3. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 1 wherein said power providing means is an electric motor.

4. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 1 wherein said fluid connection is a bleed line to bleed a portion of said fluid from the outlet of said centrifugal pump to the inlet.

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5. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 1 wherein said fluid connection between said outlet and inlet of said centrifugal pump is provided with at least one nozzle at the inlet for injection of bled fluid into the delivery line of said inlet of said centrifugal pump.

6. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 5 wherein said at least one nozzle provides, an increase in velocity head to said bled flow prior to the point of injection by reducing the flow area of the fluid connection means.

7. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 5 wherein said at least one nozzle is oriented in respect of the delivery line of the inlet so as to impart a prerotation force onto ~~the~~ a main inlet side fluid delivery.

8. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 7 wherein said pre-rotation is in a direction co-rotatory with ~~said~~ an impeller rotation direction.

9. (Cancelled)

10. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 1 wherein the impeller is one modified from ~~a one~~ an impeller of a centrifugal pump which would ~~be ordinarily (to operate at or about peak efficiency) designated to pump in a similar situation to the pump of the present invention~~ but where the fluid is liquid only, said modification including the removal of vanes to provide said ~~larger~~ vane separated passageways, ~~but to a limit of no less than 2 vanes remaining present.~~

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11. (Cancelled)

12. (Currently Amended) ~~A Pumping~~ The pumping arrangement as claimed in claim 1 wherein said impeller has ~~4~~ four vanes.

13. (Currently Amended) A method of pumping multi-phase fluid flow, said arrangement method comprising:

providing a centrifugal pump which includes a fluid inlet connected in fluid communication with a fluid source and an outlet through which said fluid is delivered,

providing a power providing means to rotate the impeller of said centrifugal pump, and

bleeding a portion of fluid from the outlet and delivering the bled fluid via a fluid connection providing means to said inlet to be injected into the main fluid flow into said centrifugal pump fluid,

wherein said centrifugal pump is provided with an impeller which has a plurality of vanes configured to define there between ~~larger~~ one of three and four vane separated passageways ~~when compared to a conventional centrifugal pump which would operate in or near optimum conditions when pumping liquid only.~~

14. (Currently Amended) A The method of pumping as claimed in claim 13 wherein said method further includes providing a flow control means in said fluid connection providing means to allow the rate of bled fluid flow to be controlled.

15. (Currently Amended) A The method of pumping as claimed in claim 13 wherein said method further includes the provision of a means to measure the volumetric rate and head of

pressure of delivered fluid, the measurements taken to be utilised in setting of the flow control means.

16. (Currently Amended) A The method of pumping as claimed in claim 13 wherein said bleeding includes prior to the injection of ~~said~~ said fluid, ~~the~~ splitting of fluid into at least two separated flow paths, wherein for each flow path there is an injection nozzle provided to inject the flow into ~~the~~ a main suction flow to said centrifugal pump.

216  
17. (Currently Amended) A The method of pumping as claimed in claim 13 wherein said injection of said bled fluid ~~is in a manner which~~ induces a rotation onto the main suction flow of fluid.

18. (Currently Amended) A The method of pumping as claimed in claim 17 wherein said rotation is in a direction co-rotatory with ~~the~~ a direction of rotation of the impeller.

19. (New) A pumping arrangement in a ducted multi-phase fluid flow system, said arrangement comprising:

a centrifugal pump which includes a fluid inlet and an outlet and driveable by a power providing means,

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a fluid communication providing means to provide a communication of fluid between said outlet and said inlet of said pump, said fluid communication providing a fluid connection between said outlet and said inlet to deliver fluid of a higher pressure from said outlet to said inlet when said centrifugal pump is in operation,

wherein said centrifugal pump is provided with an impeller which has a plurality of vanes configured to define there between one of three and four impeller vane separated passageways.

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